

SYSTEM AND METHOD FOR DETERMINING REENTRANT VENTRICULAR
TACHYCARDIA ISTHMUS AND SHAPE FOR CATHETER ABLATION

ABSTRACT

5 A method for identifying and localizing a reentrant
circuit isthmus in a heart of a subject during sinus
rhythm, including: a) receiving electrogram signals from
the heart during sinus rhythm via electrodes; b) storing
the electrogram signals; c) creating a map based on the
10 electrogram signals; d) finding a center reference
activation location on the map; e) defining measurement
vectors originating from the center reference activation
location; f) selecting from the measurement vectors a
primary axis vector indicating a location of the
15 reentrant circuit isthmus in the heart; g) finding
threshold points of electrogram signals on the map; h)
connecting the threshold points to form a polygon
indicating a shape of the reentrant circuit isthmus in
the heart.

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